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	APPLICATION NO.	FILING DATE	FIRST NAM	IED INVENTOR		ATTORNEY DOCKET NO.
	09/513,369	5 02/25/	00 HARRIS		С	15280-376100
Г			l Harrier de la			EXAMINER
	Townsend a	and Townser	HM22/09 nd and Crew LLF		NICK	OL,G
			ter 8th Floor		ART UNIT	PAPER NUMBER
	San Franc:	isco CA 94:	111-3834		1642	11
					DATE MAILED:	09/10/01

Please find below and/or attached an Office communication concerning this application or proceeding.

**Commissioner of Patents and Trademarks** 

Application No.   Applicant(s)   Office Action Summary							
Examiner		Application No.	lication No. Applicant(s)				
Cary B. Nickol Ph.D.   1642		09/513,365	HARRIS ET AL.				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Repty  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE £ MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Estimations of them myls a sealized under the provisions of 12 CR 1.13(a). In covent, however, may a reply be timely filed sheet in the provision of 12 CR 1.13(a). In covent, however, may a reply be timely filed sheet SIX (b) NCMTHS from the mailing date of this communication.  If the provision of the provision has reply a specified accommentation of this communication of the provision of Claims  4) Claim(s) 1.55 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) is/are allowed.  6) Claim(s) is/are allowed.  6) Claim(s) is/are allowed.  6) Claim(s) is/are explicated to provision to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11) The proposed drawing correction filed on is/are valued to by the Examiner.  Application Papers  9) The specification is objected to by the Examiner.  10) The drawing(s) filed on is/are: a)	Office Action Summary	Examiner	Art Unit				
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## **DETAILED ACTION**

Claims 1-57 are pending in the application and are currently under prosecution.

Please Note: In an effort to enhance communication with our customers and reduce processing time, Group 1640 is running a Fax Response Pilot for Written Restriction Requirements. A dedicated Fax machine is in place to receive your responses. The Fax number is 703-308-4315. A Fax cover sheet is attached to this Office Action for your convenience. We encourage your participation in this Pilot program. If you have any questions or suggestions please contact Anthony Caputa, Ph.D., Supervisory Patent Examiner at 703-308-3995. Thank you in advance for allowing us to enhance our customer service. Please limit the use of this dedicated Fax number to responses to Written Restrictions.

# Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-9, 20-21 drawn to isolated nucleic acids, vectors, and host cells classified in class 536, subclass 23.1; class 435, subclass 320.1, 325.
- II. Claims 10-14, drawn to an isolated tumor suppressor polypeptide, p33ING2, classified in class 530, subclass 350.
- III. Claims 15-16, drawn to an antibody that binds to an amino acid sequence of SEQ ID NO:1, but does not bind to an amino acid sequence of SEQ ID NO:8, classified in class 530, subclass 387.1.
- IV. Claims 17-18, drawn to an antibody that binds to an amino acid sequence of SEQID NO:8, but not to SEQ ID NO:1 classified in class 530, subclass 387.1.

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- V. Claim 19, drawn to an antibody that binds to an amino acid sequence of SEQ ID
   NO:5, but does not bind to SEQ ID NO:8 classified in class 530, subclass 387.1.
- VI. Claims 22-29, drawn to a method for identifying a compound that modulates a tumor suppressor polypeptide, p33ING2, classified in class 435, subclass 4.
- VII. Claims 30-38, drawn to a method of inhibiting cellular proliferation comprising transducing a cell, classified in class 435, subclass 4, 69.1.
- VIII. Claims 39-49, drawn to a method for detecting the presence or absence of p33ING2 in mammalian tissue comprising detecting the level of p33ING2-specific reagents, classified in class 435, subclass 6, 7.1.
- IX. Claims 50-52, drawn to a method for determining a test amount of p33ING2 in mammalian tissue, classified in class 435, subclass 4, 6, 7.1.
- X. Claims 53-54, drawn to a method of detecting the presence or absence ofp33ING1 in mammalian tissue, classified in class 435, subclass 7.1.
- XI. Claims 55-57, drawn to a method of determining a test amount of p33ING1 in mammalian tissue, classified in class 435, subclass 7.1.

The inventions are distinct, each from the other because of the following reasons:

The Inventions of Groups I-V represent separate and distinct products which are made by materially different methods, and are used in materially different methods which have different modes of operation, different functions and different effects.

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The inventions of Groups VI-XI are materially distinct methods which differ at least in objectives, method steps, reagents and/or dosages and/or schedules used, response variables, and criteria for success.

The invention of Group I and the methods of Groups VI-VII are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (I) the process for using the product as claimed can be practiced with another materially different product or (ii) the product as claimed can be used in a materially different process of using that product [see MPEP § 806.05(h)]. In the instant case the nucleic acid product as claimed can be used in a materially different process such as affinity chromatography.

The invention of Group III and the methods of Groups VI-VIII are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (I) the process for using the product as claimed can be practiced with another materially different product or (ii) the product as claimed can be used in a materially different process of using that product [see MPEP § 806.05(h)]. In the instant case the antibody product as claimed can be used in a materially different process such as affinity chromatography.

The invention of Group V and the method of Groups VIII are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (I) the process for using the product as claimed can be practiced with another materially different product or (ii) the product as claimed can be used in a materially different process of using that product [see MPEP § 806.05(h)]. In the instant case the antibody product as claimed can be used in a materially different process such as affinity chromatography.

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The invention of Group IV and the methods of Groups VI-XI are not at all related because the antibodies of Group IV are not used in any of the methods of Groups VI-XI.

The invention of Group II and the methods of Groups VI-XI are not at all related because the proteins of Group II are not used in any of the methods of Groups VI-XI.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper. Furthermore, because these inventions are distinct for the reasons given above and the search required for one group is not required for another group, restriction for examination purposes as indicated is proper.

## **SPECIES ELECTION**

Group VI (Claims 28 and 29) is generic to a plurality of disclosed patentably distinct species comprising the following:

- a) a cell which is a HCT116 human colon cancer cell line
- b) a cell which has the missense p33ING2 sequence of a polypeptide comprising SEQ ID NO:6

Group VII (Claims 36-38) is generic to a plurality of disclosed patentably distinct species comprising the following:

- a) a cell which is a HCT116 human colon cancer cell line
- b) a cell which has a missense endogenous p33ING2 phenotype
- c) a cell which has a null endogenous p33ING2 phenotype

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d) a cell which has the missense p33ING2 sequence of a polypeptide comprising SEQ ID NO:6

The above species represent separate and distinct cellular genotypes and phenotypes with different functions such that one species could not be interchanged with the other. As such, each species would require different searches and the consideration of different patentability issues.

Group VIII (Claim 40) AND Group IX (Claim 52) are generic to a plurality of disclosed patentably distinct species comprising the following:

a) a p33ING2-specific antibody

b) a p33ING2-specific primer

c) a p33ING2-specific nucleic acid probe

The above species represent separate and distinct molecules with different structures and functions such that one species could not be interchanged with the other. As such, each species would require different searches and the consideration of different patentability issues.

Group VIII (Claim 41) is further generic to a plurality of disclosed patentably distinct species comprising the following nucleotide sequences:

a) SEQ ID NO:7

b) SEQ ID NO:2

c) SEQ ID NO: 10

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Group VIII (Claims 48-49) is further generic to a plurality of disclosed patentably distinct species comprising the following antibodies:

a) an antibody that binds to an amino acid sequence of SEQ ID NO:1, but does not bind to an amino acid sequence of SEQ ID NO:8

b) an antibody that binds to an amino acid sequence of SEQ ID NO:5, but does not bind to SEQ ID NO:8

The products of the above species represent separate and distinct molecules with different structures and functions such that one species could not be interchanged with the other. As such, each species would require different searches and the consideration of different patentability issues.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after

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the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gary B. Nickol Ph.D. whose telephone number is 703-305-7143. The examiner can normally be reached on M-F, 8:30-5:00 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anthony Caputa can be reached on 703-308-3995. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-3014 for regular communications and 703-308-4242 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0196.

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Gary B. Nickol, Ph.D. Examiner
Art Unit 1642

GBN September 5, 2001

> SUSANTINGAR, PHID PRIMARY EXAMINER



# RESTRICTION ELECTION FACSIMILE TRANSMISSION

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